

<!--StartFragment-->RESULT 1

AAW69697

ID AAW69697 standard; protein; 365 AA.

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AC AAW69697;

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DT 07-DEC-1998 (first entry)

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DE Human coxsackievirus and Ad2 and Ad5 receptor HCAR protein.

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KW HCAR; coxsackievirus receptor; CVB; adenovirus; Ad2 receptor;

KW Ad5 receptor; human; infection; vaccine; therapy.

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OS Homo sapiens.

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FH Key Location/Qualifiers

FT Domain 35. .130

FT /note= "extracellular immunoglobulin domain"

FT Region 45. .52

FT /note= "CVB binding region (Claim 6)"

FT Region 47. .51

FT /note= "Ad2/5 and CVB binding region (Claim 6)"

FT Region 53. .57

FT /note= "Ad2/Ad5 binding region (Claim 6)"

FT Region 69. .73

FT /note= "Ad2/Ad5 binding region (Claim 6)"

FT Region 72. .77

FT /note= "Ad2/5 and CVB binding region (Claim 6)"

FT Region 72. .77

FT /note= "CVB-binding region (Claim 6)"

FT Region 77. .79

FT /note= "Ad2/Ad5 binding region (Claim 6)"

FT Region 96. .100

FT /note= "CVB-binding region (Claim 6)"

FT Region 122. .127

FT /note= "Ad2/5 and CVB binding region (Claim 6)"

FT Domain 155. .220

FT /note= "extracellular immunoglobulin domain"

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PN WO9833819-A1.

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PD 06-AUG-1998.

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PF 30-JAN-1998; 98WO-US001724.

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PR 30-JAN-1997; 97US-0036986P.

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PA (UYN Y) UNIV NEW YORK STATE.

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PI Tomko RP, Philipson L;

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DR WPI; 1998-437397/37.

DR N-PSDB; AAV50429.

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PT DNA encoding human receptor for adenovirus C and coxsackievirus B - for preventing and treating viral infection and rendering cells susceptible to transformation by adenoviral vectors in gene therapy.

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PS Claim 3; Page 67-68; 88pp; English.

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CC This is the amino acid sequence of human HCAR, a protein that serves as a

CC cellular receptor for adenoviruses of the serotypes 2 and 5 (subgroup C)
 CC and for the group B coxsackieviruses (CVB). The sequence was deduced from
 CC an isolated cDNA clone for HCAR (see AAV50429). The invention also
 CC provides host cells transformed with DNA molecules encoding HCAR or mouse
 CC MCAR (see AAW69698) and methods of producing the recombinant proteins or
 CC their derivatives. These proteins, their extracellular domains, as well
 CC as oligopeptides (see AAW69699-708) which bind virus, are claimed.
 CC Isolated HCAR or MCAR proteins or their fragments or variants are used to
 CC prevent or treat virus infections and for inhibiting the infectivity of
 CC Ad2, Ad5 or CVB. Methods are also provided for detecting or measuring the
 CC quantity of HCAR or MCAR in a sample, and for identifying analytes
 CC capable of binding to HCAR or MCAR

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SQ Sequence 365 AA;

Query Match 99.4%; Score 1880; DB 2; Length 365;
 Best Local Similarity 99.5%; Pred. No. 1.1e-159;
 Matches 363; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy	1	MALLLCFVLLCGVDFARSL	SITTP	PEEMIEKAKGETAYLPCKFTLSPEDQGPLDIEWLIS	60
Db	1	MALLLCFVLLCGVDFARSL	SITTP	PEEMIEKAKGETAYLPCKFTLSPEDQGPLDIEWLIS	60
Qy	61	PADNQKVDQVIILYSGDKIYDDYYPDLKGRVHFTSNDLKSGDASINVTNLQLSDIGTYQC			120
Db	61	PADNQKVDQVIILYSGDKIYDDYYPDLKGRVHFTSNDLKSGDASINVTNLQLSDIGTYQC			120
Qy	121	KVKKAPGVANKKIHVLVVKPSGARC	YVDGSEEIGSDFKIKCEPKEGSLPLQYEWQKLSD		180
Db	121	KVKKAPGVANKKIHVLVVKPSGARC	YVDGSEEIGSDFKIKCEPKEGSLPLQYEWQKLSD		180
Qy	181	SQKMPTSWLAEMTSSVISVKNASSEYSGTYSCTVRNRVGS	DQCLLRNLNVPPSNKAGLIA		240
Db	181	SQKMPTSWLAEMTSSVISVKNASSEYSGTYSCTVRNRVGS	DQCLLRNLNVPPSNKAGLIA		240
Qy	241	GAIIGTLLALALIGLIIFCCRKKRREEKYEKEVHHDIRE	VPPPKSRTSTARSYIGSNHS		300
Db	241	GAIIGTLLALALIGLIIFCCRKKRREEKYEKEVHHDIRE	VPPPKSRTSTARSYIGSNHS		300
Qy	301	SLGSMSPSNMEGYSKTQYNQVPSEDFERTPOSPTLPPAKVALLNLSRMGAIPVMIPAQSK			360
Db	301	SLGSMSPSNMEGYSKTQYNQVPSEDFERTPOSPTLPPAKVAAPNLSRMGAIPVMIPAQSK			360
Qy	361	DGSIV	365		
Db	361	DGSIV	365		

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